

Charge control device for and method for controlling the functioning of a reciprocating internal combustion engine

Veröffentlichungsnummer DE19830575

Veröffentlichungsdatum: 2000-01-13

Erfinder UITENBROEK PAUL (DE)

Anmelder: NONOX B V (NL)

Klassifikation:

- Internationale: F02D9/16; F02B37/00; F02B43/06

- Europäische: F02B27/00; F02B29/00; F02B29/08A; F02B43/00; F02D9/16

Anmeldenummer: DE19981030575 19980708

Prioritätsnummer(n): DE19981030575 19980708

Auch veröffentlicht als



WO0003131 (A)

EP1095210 (A1)

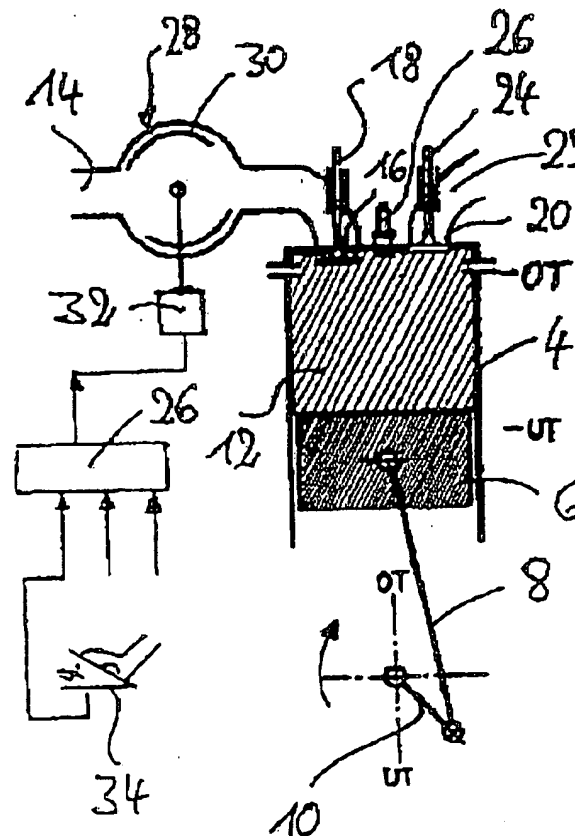
US6360719 (B1)

EP1095210 (B1)

Report a data error here

Zusammenfassung von DE19830575

The invention relates to a charge control device for a reciprocating internal combustion engine, especially a gas engine. Said internal combustion engine contains at least one cylinder (4) wherein a piston (6) operates, said piston (6) being connected to a crankshaft (10). The cylinder has at least one intake opening (16) wherein an admission valve (18) operates. Said admission valve (18) opens and closes according to the rotation of the crankshaft, temporarily connecting the cylinder to an intake port (14) which terminates in the intake opening. The cylinder also has at least one exhaust opening (20) wherein an exhaust valve (24) operates. Said exhaust valve (24) opens and closes according to the rotation of the crankshaft, temporarily connecting the cylinder to an exhaust port (22) which begins at the exhaust opening. The invention is characterised in that a rotary-disc valve (28, 60, 62) is situated in the intake port (14), said rotary-disc valve being actuated by an electromotor (28; 90) and in that a control device (26) is provided. This control device controls the electromotor in dependence on at least one power requirement mechanism (34) in such a way that when the power requirement is decreasing, the time at which the rotary-disc valve closes increasingly precedes the time at which the admission valve closes.



Charge control device for and method for controlling the functioning of a reciprocating internal combustion engine

Veröffentlichungsnummer DE19830575

Veröffentlichungsdatum: 2000-01-13

Erfinder Uitenbroek Paul (DE)

Anmelder: NONOX B V (NL)

Klassifikation:

- Internationale: F02D9/16; F02B37/00; F02B43/06

- Europäische: F02B27/00; F02B29/00; F02B29/08A; F02B43/00;
F02D9/16

Anmeldenummer: DE19981030575 19980708

Prioritätsnummer(n): DE19981030575 19980708

Auch veröffentlicht als



WO0003131 (A

EP1095210 (A1

US6360719 (B1)

EP1095210 (B1)

Report a data error here

Zusammenfassung von DE19830575

The invention relates to a charge control device for a reciprocating internal combustion engine, especially a gas engine. Said internal combustion engine contains at least one cylinder (4) wherein a piston (6) operates, said piston (6) being connected to a crankshaft (10). The cylinder has at least one intake opening (16) wherein an admission valve (18) operates. Said admission valve (18) opens and closes according to the rotation of the crankshaft, temporarily connecting the cylinder to an intake port (14) which terminates in the intake opening. The cylinder also has at least one exhaust opening (20) wherein an exhaust valve (24) operates. Said exhaust valve (24) opens and closes according to the rotation of the crankshaft, temporarily connecting the cylinder to an exhaust port (22) which begins at the exhaust opening. The invention is characterised in that a rotary-disc valve (28, 60, 62) is situated in the intake port (14), said rotary-disc valve being actuated by an electromotor (28; 90) and in that a control device (26) is provided. This control device controls the electromotor in dependence on at least one power requirement mechanism (34) in such a way that when the power requirement is decreasing, the time at which the rotary-disc valve closes increasingly precedes the time at which the admission valve closes.

